

section-knives *a*; 4th. The motion of the cutter-bar *R*, whereby each section or knife *c*, shall pass across two spaces between the fingers *a*.

No. 4812. WILLIAM CHALLENGER, Mitchell, Ont., 5th June, 1875, for 5 years, "Trace Buckle." (Boucle de traits de harnais.)

*Claim.*—A lever trace buckle, the lower or main plate *A*, having the slotted sides *A4*, and projecting stud or pin *E*, in combination with the pad or back-band *D*, perforated at suitable intervals by the holes *d*.

No. 4813. HARRIET N. COLBY, New-Port, N. H., U. S., 5th June, 1875, for 5 years: "Combined Stove Shelf and Bread Toaster." (Tablette de poêle et gril pour le pain combinés.)

*Claim.*—1st. A bracket or shelf made of wire secured to the pipe of the stove by the hinged bale or clamp; 2nd. The combination in a stove bracket or shelf of the frame *A*, braces *B*, *B1*, and *C*, cross-ties or girders *D*, and the wire net-work *F*, or its equivalent; 3rd. The removable bracket or shelf consisting of the frame *A*, covered with the wire net-work *F*, or equivalent braced, combined with the curved rear-extensions *A1*, *A2*, having the bale *E*, hinged in such manner that the whole may be readily removed from the stove-pipe and adapted for use as a bread-toaster.

No. 4814. LEONARD MALTUS, Hamilton, Ont., 5th June, 1875, for 5 years: "Street Car Fare Box." (Boîte à billets de chemins de fer urbains.)

*Claim.*—The combination and arrangement of the several parts: namely: The change-door *C*, in connection with the hinge *Q*, the catch *W*, and spring *R*; the hinge *Q*, in connection with the cam *S*, the bell-hammer *T*, lever *V*, the spring *Y*, and bell *U*; the rod *X*, in connection with the lever *V*, and the spring *Z*; the stop-table *J*, in connection with the tilting-table *K*; the lamp ventilator *C*, in connection with the lamp-chamber *D*.

No. 4815. JOHN STAUFFER, and JAMES W. CARROLL, Toronto, Ont., 5th June, 1875, for 5 years: "Sash-fastener." (Arrête-croisée.)

*Claim.*—1st. The face-plate *A*, constructed with ear-pieces *a*, *a*, and segmental-ratchet *b*, and recessed below, for the angular sliding-plate *C*; 2nd. The eccentric-disc *B*, with arm and knob *D*, ratchet-bar *E*, and spiral-spring *F*; 3rd. The combination with the face-plate *A*, of the eccentric-disc *B*, with pin *C1*, the angular plate *C*, with groove *C1*.

No. 4816. VEN RENNELAER TAYLOR, Syracuse, and REUBEN C. SUTHERLAND, Jr., Dewitt, N. Y., U. S., 5th June, 1875, for 5 years: "Blacksmith's Tuyere." (Tuyère de forge.)

*Claim.*—The chamber *A*, having a bevelled projecting-front, the cover *a*, having attached thereto the inward projecting inlet-tube *b*, the intermediate perforated plate *c*, having attached thereto the outlets *n*, *n*, valve *o*, and bolts *e*, *e*.

No. 4817. ASA ROBBINS, Yarmouth, N. S., 5th June, 1875, for 5 years: "Process of Tanning Hides." (Procédé de tannage des peaux.)

*Claim.*—The process of filling skins with oil, when partly tanned and finishing the remainder of the tanning with the skins filled with oil or tallow, thereby making the skins perfectly waterproof and very much stronger in texture and more durable to wear.

No. 4818. JACOB L. ISAACS, and RICHARD HALIDAY, St. Louis, Mo., U. S., 5th June, 1875, for 5 years: "Improvements on Step Ladders." (Perfectionnements aux échelles à queues.)

*Claim.*—1st. The ladder-part *A*, with journal bearings *a*, and spring-bolts *c*, in combination with ladder part *B*, having journal bearings *a*; 2nd. The ladder *A*, with journal-bearings *a*, spring-bolts *c*, in combination with ladder *B*, having journal-bearings *a*, and catch-hooks *E*, constructed and arranged for purposes of an extension-ladder; 3rd. In combination with the ladder-parts *A*, *B*, the cord-attachment *C*, arranged to pass through staples *c*, and looped to side-hooks *c1*; 4th. In combination with the ladder-parts *A*, *B*, the perforated strip *c2*, buckle *c3*, and cord *C*; 5th. The combination with the top of the ladder *A*, of a sliding-top *D*, carrying hooks *d1*; 6th. The combination of the ladder-parts *A*, *B*, journal-bearings *a*, spring-bolts *b*, cord *C*, staples *c*, side-hooks *c1*, metal-strip *c2*, buckle *c3*, sliding-top *D*, and hooks *d1*.

No. 4819. HENRY FOSTER, Westerly, R. I., U. S., 5th June, 1875, for 5 years: "Rail-road Snow-plough." (Charrue à neige de railroutes.)

*Claim.*—The adjustable snow-plough *B*, constructed as described, when adjusted by screw *D*, or its equivalents.

No. 4820. BERNARD ACKERMAN, New York, U. S., 5th June, 1875, for 10 years: "Improvements in the Preparation of Fertilizers." (Perfectionnements dans la préparation des engrais.)

*Claim.*—The banded manure composed of excrementary matters *A*, and straw or litter *B* confined in an approximately rectangular form by the bands *C*, so as to present the ventilating grooves *a*.

No. 4821. DAVID E. ROE, Ayer, Mass., U. S., 5th June, 1875, for 5 years: "Fly-trap." (Piège à mouche.)

*Claim.*—1st. In combination with a trap for flies, the mat *E*, having a radially extended edge upon which part of the bait is placed as a decoy; 2nd. The base *D*, cone *B*, with receiver *A*, opening therefrom, and the mat *E*, having a projecting edge.

No. 4822. HENRY MARTYN, Boston, Mass., U. S., 5th June, 1875, for 5 years: "Improvements in the Manufacture of Boxes and Pans." (Perfectionnements dans la fabrication des boîtes et ustensils métalliques.)

*Claim.*—A pan, box, body or cover made of sheet metal or material bent in manner described, whereby at each of its corners, the material is without seam and folded in manner upon two contiguous sides of the article as represented; the female-die having corner recesses and folders to each and a finishing-space, all constructed and arranged in manner and to operate with a male-die; the male-die, as provided with the two recesses at each corner of its perimotor, such die being for use with a female-die.

No. 4823. JAMES SCOTT, Jr., Hamilton, Ont., 5th June, 1875, for 5 years: "Composition Stamp." (Estampes en composition.)

*Claim.*—An improved compound for composition stamps for ornamenting with bronze, gold and silver leaf, &c., consisting of gelatine, syrup, glycerine, in combination with tannin.

No. 4824. JULIAN SALE, Jr., Toronto, Ont., 5th June, 1875, for 5 years: "Improvements on Wallets, Pocket Books or Purses." (Perfectionnements aux sacs, portefeuilles ou bourses.)

*Claim.*—The furnishing of wallets, pocket-books or purses, with a movable pocket *A*, having a strap *b*, or elastic-band attached thereto, and placed in the interior of the wallet, pocket-book, or purse, for the holding of bank-notes or other papers.

No. 4825. WILLIAM D. WESTMAN, Toronto, Ont., 5th June, 1875, for 5 years: "Improvements on Scroll Saw." (Perfectionnements aux scies à évider.)

*Claim.*—1st. The driving of the pitman or saw-shaft of a rip and scroll-saw, by means of a friction-wheel *F*, and pulley *G*; 2nd. The combination of the tightening-bar *T*, pivoted in the lower saw-arm *L*, and adjusted by means of the hinged-screw *a2*, and finger-nut *a3*, in the upper saw-arm *M*; 3rd. The saw *R*, tapered and in combination with the same, the steel-guides *p*, *p1*; 4th. The bracket *N*, when attached to the side of the machine, with arm *o*, in combination with the saw-arms *L* and *M*, the steel-guide *p*, and the adjustable-guide *q*; 5th. The application of the treadle *B*, rod *C*, and face-plate *D*, with crank-pin therein, and balance-wheel *F*, in combination with each other for communicating motion to a rip and scroll saw.

No. 4826. JOHN Z. WALLING, Red Wing, Min., U. S., 9th June, 1875, for 5 years: "Apparatus for Breaking Horses." (Appareil à dompter les chevaux.)

*Claim.*—1st. The diagonal-straps *I* and *G*, in combination with straps *C* and *F*, sure-ingle *E*, for supporting the pulley-block *D*, and straps or bands *A*, *B*; 2nd. The pulley-block *D*, and straps *C*, *F*, connecting with leg-straps *A* and *B*.